

NOT COMPLETE

**INITIAL REVIEW OF NOTICE OF INTENTION  
TO COMMENCE LARGE MINING OPERATIONS**

**Robert Steele  
Hi Cal #1 Mine**

**M/023/071  
July 18, 2003**

**R647-4-105 - Maps, Drawings & Photographs**

**105.3 Drawings or Cross Sections (slopes, roads, pads, etc.)**

Please furnish a minimum of one north-south and one east-west cross-section of the mine area. These sections should show the surface, before mining, after mining and after reclamation. (DJ)

*The maps furnished with the review reply were plat maps showing the features of the mine, no cross-sections were furnished. (DJ)*

**R647-4-106 - Operation Plan**

**106.3 Estimated acreages disturbed, reclaimed, annually.**

Acreage to be disturbed during the life of this operation indicates .5 acres of access/haulroad and .5 acres of overburden/waste dumps. Please indicate on the site map the locations of these features. (DJ)

*It was unclear whether the overburden/waste dumps and access/haulroads shown on the plat maps was the areas referred to in this statement. (DJ)*

Attachment #4 map should be modified to indicate the areas to be disturbed (mined) annually for the life of this permit. (DJ)

*The areas of future expansion not shown on plat maps furnished with the reply. (DJ)*

**106.4 Nature of materials mined, waste and estimated tonnages**

The plan shows that the overburden depth of 2 feet, but the estimated waste produced during mining is stated as "none". Please review this statement and correct the plan accordingly. (DJ)

*The reply furnished is sufficient. (DJ)*

**106.9 Location & size of ore, waste, tailings, ponds**

Please show the size and location of waste piles to be constructed at the site. (DJ)

*Overburden pile shown on plat map. Reply is sufficient. (DJ)*

**R647-4-107 - Operation Practices**

**107.1 Public safety & welfare**

**107.1.15 Constructing berms, fences, etc. above highwalls**

Berms or fences should be constructed above any highwalls that may exist at the site. Signs warning the public of the hazards posed by these features should be placed on the berms or fences. (DJ)

*Reply states berms have been constructed, signs will be placed. (DJ)*

**107.6 Concurrent reclamation**

In this section, the application refers to Attachment 4 which is a map showing a small reclaimed area on the northeast side of the disturbance. The application needs to discuss whether concurrent reclamation is feasible and how and where it will be done. (PBB)

**R647-4-109 - Impact Assessment**

**109.4 Slope stability, erosion control, air quality, safety**

A crusher is being used onsite to prepare the material for removal. Has an air quality permit been applied for from the Utah Air Quality Division? Please include a copy of the application with your response to this review. (DJ)

*Air quality permit number furnished. (DJ)*

**R647-4-110 - Reclamation Plan**

**110.2 Roads, highwalls, slopes, drainages, pits, etc., reclaimed**

The plan does not indicate whether any highwalls will exist during and after mining. Please show the size and location of any highwalls that may result from your mining activities. If highwalls do occur at the site, please indicate the reclamation treatments that will be applied in these areas. (DJ)

*Reply states that highwalls will be covered with waste clay (overburden) and topsoil and reseeded. Please state final slope angle of these features. (DJ)*

**R647-4-111 - Reclamation Practices**

The plan states "At the completion of mining Rule R647-3-107, 108, & 109 will comply with this mining operation." This statement is confusing because Rule R647-3- are rules to be applied to small mines, Rule R647-4 are rules that apply to a large mine application.

The plan should provide a description of which portions of these rules would apply to this operation and the planned actions to address these impacts. (DJ)

*All large mine rules will apply to the operation of this permit. (sufficient) (DJ)*

**111.1 Public safety & welfare**

**1.15 Constructing berms/fences above highwalls**

If highwalls result from mining activities, berms or fencing need to be constructed above these areas. (DJ)

*See R647-4-107.1 reply. (DJ)*

**111.7 Highwalls stabilized at 45 degrees or less**

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If highwalls occur on the site, the plan should indicate what method would be used to stabilize these areas. (DJ)

***See R647-4-110.2***

**R647-4-113 – Surety**

A blank reclamation surety form is included with this review for your use. (DJ)

***A copy of a blank surety form is attached. (DJ)***

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RECLAMATION SURETY ESTIMATE						
mine operator	last revision				10/07/02	
mine name	filename M000-000.WB2				page "estimate D8"	
DOGM file Number	County					
Prepared by Utah State Division of Oil, Gas & Mining						
<b>Note: actual unit costs may vary according to site conditions</b>						last unit cost update 10/07/02
<b>-Amount of disturbed area which will receive reclamation treatments =</b>						acres
<b>-Estimated total disturbed area for this mine =</b>						acres
<u>Activity</u>	<u>Quantity</u>	<u>Units</u>	<u>\$/unit</u>	<u>\$</u>	<u>Note</u>	
Safety gates, signs, etc. (mtls & installation)	0 sum		200		0 (1)	
Demolitions of buildings and facilities	0 cf		0.26		0 (2)	
Debris & equipment removal - trucking	0 trips		55		0 (3)	
Debris & equipment removal - dump fees	0 ton		60		0 (4)	
Debris & equipment removal - loading trucks w/FE loader	0 hours		180		0 (5)	
Demolition & debris removal - general labor	0 hours		15		0 (6)	
Regrading facilities areas (2 ft depth)	0 acre		613		0 (7)	
Regrading waste dump slopes	0 CY		0.6		0 (8)	
Ripping waste dump tops	0 acre		246		0 (9)	
Ripping stockpile & compacted areas	0 acre		246		0 (9)	
Ripping pit floors	0 acre		246		0 (9)	
Ripping pit access roads (2 ft depth)	0 acre		613		0 (9)	
Creating safety berms or barriers around highwalls	0 LF		0.2		0 (10)	
Ripping access roads - dozer	0 acre		246		0 (9)	
Regrading access roads - dozer	0 acre		246		0 (9)	
Sidecast mtl replacement on steep roads - trackhoe	0 LF		1.25		0 (11)	
Surface drainage restoration or construction	0 LF		0.2		0 (10)	
Topsoil replacement - dozer	0 CY		0.58		0 (12)	
Topsoil replacement - scraper	0 CY		1.19		0 (13)	
Topsoil replacement - truck & FE loader	0 CY		2.65		0 (14)	
Mulching (2 ton/acre alfalfa/straw)	0 acre		350		0 (00)	
Fertilizing (100 lb/acre diammonium phosphate)	0 acre		90		0 (00)	
Composted manure (10 ton/acre)	0 acre		300		0 (00)	
Broadcast seeding	0 acre		240		0 (00)	
Drill seeding	0 acre		240		0 (00)	
Hydroseeding	0 acre		800		0 (00)	
General site cleanup & trash removal	0 acre		50		0 (00)	
Equipment mobilization	0 equip		2000		0 (00)	
Reclamation supervision	0 days		400		0 (15)	
	Subtotal				0	
10% Contingency					0	
	Subtotal				0	
Escalate for 5 years at 2.89% per year					0	
	Total				0	
Rounded surety amount in year 2008 \$					0	
Average cost per disturber acre =		#DIV/0!				